

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	330	348/294.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:07
S3	59	S1 and ((two or second) near2 (vertical\$1 or column\$1 or y))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 11:54
S4	5	S1 and ((two or second) near2 (vertical\$1 adj1 (scan\$4 or circuit\$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:36
S5	0	S1 and ((two or second) near2 (vertical\$1 adj1 read\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 12:00
S6	25	S1 and (vertical\$1 near2 read\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 12:09
S7	52	S1 and (((expos\$4 or integrat\$3 or accumulat\$4) with (row\$1 or column\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:21
S8	33	S1 and (((expos\$4 or integrat\$3 or accumulat\$4) with (row\$1 or column\$1)) same (tim\$3 or pulse\$1 or interval\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:35
S9	1	S8 and ((two or second) near2 (vertical\$1 adj1 (scan\$4 or circuit\$1 or read\$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:25
S10	33	S1 and (((expos\$4 or integrat\$3 or accumulat\$4) with (row\$1 or column\$1)) same (tim\$3 or puls\$3 or interval\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:16
S11	10	S1 and (((expos\$4 or integrat\$3 or accumulat\$4) with (row\$1 or column\$1)) same (simultaneous\$2 or rate\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:29
S12	175	348/297.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:50
S13	5	S1 and ((two or second) near2 (vertical\$1 adj1 (scan\$4 or circuit\$1 or read\$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 18:28
S14	45	S12 and (((expos\$4 or integrat\$3 or accumulat\$4) with (row\$1 or column\$1)) same (tim\$3 or puls\$3 or interval\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:38

S15	417	348/301-304.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:59
S16	18	S15 and ((two or second) near2 (vertical\$1 adj1 (scan\$4 or circuit\$1 or read\$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:59
S17	473	348/307-310.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 13:59
S18	15	S17 and ((two or second) near2 (vertical\$1 adj1 (scan\$4 or circuit\$1 or read\$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:32
S19	124	S17 and (((expos\$4 or integrat\$3 or accumulat\$4) with (row\$1 or column\$1)) same (tim\$3 or puls\$3 or interval\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:35
S20	1474	250/208.1.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:49
S21	8	S20 and ((two or second) near2 (vertical\$1 adj1 (scan\$4 or circuit\$1 or read\$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:33
S22	1	S21 and (((expos\$4 or integrat\$3 or accumulat\$4) with (row\$1 or column\$1)) same (tim\$3 or puls\$3 or interval\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:36
S23	1	S21 and ((expos\$4 or integrat\$3 or accumulat\$4) with (row\$1 or column\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:36
S24	5	S21 and ((expos\$4 or integrat\$3 or accumulat\$4) with (line\$1 or row\$1 or column\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:43
S25	6	("4603355" "4835617" "4974093").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 21:16
S26	865	(SUZUKI-RYOJI UENO-TAKAHISA SHIONO-KOICHI YONEMOTO-KAZUYA).IN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/20 14:48
S27	704	S26 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:49

S28	28	S27 AND ("348" "250").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 14:53
S29	47	S26 AND ("348" "250").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 15:27
S30	12	("4237477" "4841369" "4910588" "5324944" "5345266" "5631704" "5721422" "5991467" "6037577" "6166768" "6181375" "6466266").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/22 10:02
S31	0	("6798451").URPN.	USPAT	OR	OFF	2005/04/20 15:10
S33	6	US-6424375-\$.DID. OR US-6133862-\$.DID. OR US-6147846-\$.DID. OR US-5471515-\$.DID. US-6133862-\$.DID. OR US-5841126-\$.DID. OR US-5345266-\$.DID.	USPAT	OR	OFF	2005/04/20 15:22
S34	5	quiett.xa.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/20 15:32
S35	1072	S1 S12 S15 S17	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/20 15:32
S36	0	S35 and ("vu-ngocyen.xa" vu-ngocyen.xp.)	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/20 15:34
S37	0	S35 and (vu-ngocyen.xa. vu-ngocyen.xp.)	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/20 15:33
S38	23	S35 and ("vu-ngoc-yen.xa" vu-ngoc-yen.xp.)	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/20 15:34
S39	9	("5187583" "5270531" "5933188" "6037577" "6091449" "6281533" "6300978" "6512543" "6528342").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/20 15:52
S40	330	348/294.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 18:24
S41	175	348/297.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 18:24
S42	417	348/301-304.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 18:24
S43	473	348/307-310.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 18:24
S44	1072	S40 S41 S42 S43	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/20 18:24

S45	312	S44 and ((long or short or different or var\$3 or varying) near5 (integrat\$3 or scan\$4 or expos\$4 or accumul\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 18:42
S46	14	S45 and ((two or second) near2 (vertical\$1 adj1 (scan\$4 or circuit\$1 or read\$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 18:48
S47	750	S44 and ((long or short or period\$1 or tim\$3 or different or var\$3 or varying) near5 (integrat\$3 or scan\$4 or expos\$4 or accumul\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 18:42
S48	298	S45 not S46	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/20 18:45
S49	256	S48 and (cmos\$1 or mos\$1 or (solid adj1 state))	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/20 18:46
S50	13	S49 and ((two or second) near2 ((vertical\$1 or horizontal\$1) adj1 (scan\$4 or circuit\$1 or read\$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 09:44
S51	13	S48 and ((two or second) near2 ((vertical\$1 or horizontal\$1) adj1 (scan\$4 or circuit\$1 or read\$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/20 18:49
S56	330	348/294.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 09:43
S57	175	348/297.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 09:43
S58	417	348/301-304.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 09:43
S59	473	348/307-310.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 09:43
S60	1072	S56 S57 S58 S59	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 09:43
S61	59	S60 and ((two or second) near2 ((vertical\$1 or horizontal\$1) adj1 (scan\$4 or circuit\$1 or read\$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 10:14
S62	40	S61 and ((driv\$3 or select\$3) with (pixel\$1 or block\$1 or cell\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 09:49

S63	9	S61 and ((long short vary\$3 varies different) with (accumulat\$3 or integrat\$3 or expos\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 09:56
S64	62	S60 and ((two or second) near2 ((vertical\$1 or horizontal\$1) adj1 (driv\$3 or scan\$4 or circuit\$1 or read\$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 09:54
S65	42	S64 and ((driv\$3 or select\$3) with (pixel\$1 or block\$1 or cell\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 09:55
S66	8	S65 and ((long short vary\$3 varies different) with (accumulat\$3 or integrat\$3 or expos\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 10:10
S67	462	S60 and (first second odd even) near2 (row line column)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 10:01
S68	73	S60 and (((first second odd even) near2 (row line column)) with ((read\$3 or accumulat\$3 or expos\$3 or integrat\$3 or scan\$4) near2 (different\$1 or tim\$3 or rat\$3 or period\$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 10:04
S69	62	S68 and (cmos or cmos or (solid adj1 state))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 10:04
S70	141	S67 and ((long short vary\$3 varies different) with (accumulat\$3 or integrat\$3 or expos\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 10:11
S71	32	S68 and ((long short vary\$3 varies different) with (accumulat\$3 or integrat\$3 or expos\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 10:11
S72	2	S71 and ((two or second) near2 ((vertical\$1 or horizontal\$1) adj1 (driv\$3 scan\$4 or circuit\$1 or read\$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 10:16
S73	12	S68 and ((two or second) near2 ((vertical\$1 or horizontal\$1) adj1 (driv\$3 scan\$4 or circuit\$1 or read\$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 10:16
S74	10	S73 not S72	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 10:41
S75	38	S60 and hitachi\$4.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 10:50

S76	72	S60 and (((different\$1 or long or short or vari\$4 or vary\$3 or two or second) near2 (accumulat\$3 or integrat\$3 or expos\$4)) with (row\$1 or line\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 10:54
S77	1474	250/208.1.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 10:54
S78	52	S77 and (((different\$1 or long or short or vari\$4 or vary\$3 or two or second) near2 (accumulat\$3 or integrat\$3 or expos\$4)) with (row\$1 or line\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 11:14
S79	102	S76 S78	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 10:57
S80	49	S79 and ((read\$3 scan\$4 driv\$3) with ((two or several or three or more (first and second)) near2 (row\$1 column\$1 line\$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 11:16
S81	4	S79 and ((read\$3 scan\$4 driv\$3) with ((two or several or three or more (first and second)) near2 (row\$1 column\$1 line\$1) near2 (simultaneous\$2 or "same" or together or concurrent\$2 or once)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 11:17
S82	45	S79 and ((read\$3 scan\$4 driv\$3) with ((row\$1 column\$1 line\$1) near3 (simultaneous\$2 or "same" or together or concurrent\$2 or once)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 11:19
S83	109	(S77 S60) and (((different\$1 or long or short or vari\$4 or vary\$3 or two or second) near2 (shutter\$1 or accumulat\$3 or integrat\$3 or expos\$4)) with (row\$1 or line\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 11:14
S84	54	S83 and ((read\$3 scan\$4 driv\$3) with ((two or several or three or more (first and second)) near2 (row\$1 column\$1 line\$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 11:16
S85	5	S83 and ((read\$3 scan\$4 driv\$3) with ((two or several or three or more (first and second)) near2 (row\$1 column\$1 line\$1) near2 (simultaneous\$2 or "same" or together or concurrent\$2 or once)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 11:18
S86	49	S83 and ((read\$3 scan\$4 driv\$3) with ((row\$1 column\$1 line\$1) near3 (simultaneous\$2 or "same" or together or concurrent\$2 or once)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 11:20
S87	44	S86 not S85	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 11:20
S88	16	S87 not ccd	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 11:33
S89	16	S87 not ccd	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 11:51

S90	28	S87 not S89	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 11:51
S91	2	"4835617".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 13:52
S92	4	("4531156" "4589027" "4626916" "4774588").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/21 13:52
S93	14	("4835617").URPN.	USPAT	OR	OFF	2005/04/21 14:10
S94	0	different with (accumulat\$3 adj2 per adj2 row)	USPAT	OR	OFF	2005/04/21 14:11
S95	330	348/294.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 16:07
S96	175	348/297.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 14:14
S97	417	348/301-304.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 14:14
S98	473	348/307-310.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 14:14
S99	1474	250/208.1.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 14:14
S100	1072	S95 S96 S97 S98	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 14:14
S101	2295	S100 S99	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/21 14:14
S102	648	S101 and ((row line) with (integrat\$3 shutter\$1 accumlat\$3 expos\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:57
S103	34	S101 and ((row line) with ((different long short "1/60" "1/250" "1/30") near3 (integrat\$3 shutter\$1 accumlat\$3 expos\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 10:59
S104	14	("5416611").URPN.	USPAT	OR	OFF	2005/04/21 14:56
S105	13	("4974093").URPN.	USPAT	OR	OFF	2005/04/21 15:06
S106	648	S101 and ((row\$1 line\$1) with (integrat\$3 shutter\$1 accumlat\$3 expos\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:28

S107	664	S101 and ((row column line) with (integrat\$3 shutter\$1 accumul\$3 expos\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:30
S108	44	S101 and (((row column line) with (integrat\$3 shutter\$1 accumul\$3 expos\$3) near5 (different vary\$3 varies variable\$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:31
S109	56	S101 and (((row column line) with (integrat\$3 shutter\$1 accumul\$3 expos\$3) near5 (different vary\$3 varies variable\$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:31
S110	61	S95 and (cmos\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:52
S111	213	S95 and (cmos\$1 or mos\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 16:05
S112	149	S95 and (cmos\$1 or mos)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:55
S113	997	S101 and (cmos mos x-y)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:56
S114	813	S113 and (integrat\$3 shutter\$1 accumul\$3 expos\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:57
S115	883	S113 and (integrat\$3 shutter\$1 accumul\$3 expos\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:57
S116	274	S113 and ((different long\$1 short\$1) with (integrat\$3 shutter\$1 accumul\$3 expos\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 15:59
S117	28	S113 and ((column\$1 row\$1 line\$1) with ((different long\$1 short\$1) near3 (integrat\$3 shutter\$1 accumul\$3 expos\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 16:06
S118	217	S95 and (cmos\$1 or mos\$1 or x-y)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 16:05
S119	531	(cmos x-y) and ((column\$1 row\$1 line\$1) with ((different long\$1 short\$1) near3 (integrat\$3 shutter\$1 accumul\$3 expos\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 16:06

S120	216	S119 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 16:12
S121	197	S120 not S101	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/21 18:56
S124	5	("6429898" "6122008" "6141049" "5463491" "6008486").pn.	USPAT	OR	ON	2005/04/21 18:58
S135	2295	S134 S133	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/22 10:21
S143	395689	((accumulat\$4 integrat\$4 expos\$4 shutter\$1) near5 (time period long short))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:05
S144	1997	S143 and ((read\$3 near2 (line row column)) with ("same" simultaneous\$2 concurrent\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:06
S149	3536	((accumulat\$4 integrat\$4 expos\$4 shutter\$1) near5 (time period long short) near3 pixel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:05
S150	1431	((accumulat\$4 integrat\$4 expos\$4 shutter\$1) near3 (different vary variable period long short) near3 pixel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:25
S151	108	S150 and ((read\$3 near2 (line row column)) with ("same" simultaneous\$2 concurrent\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:27
S152	56	S151 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:26
S153	60	((accumulat\$4 integrat\$4 expos\$4 shutter\$1) with (long and short) near3 pixel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:26
S154	99	((accumulat\$4 integrat\$4 expos\$4 shutter\$1) with (long and short) near5 pixel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:26
S155	59	S154 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 12:53
S156	2	S155 and ((read\$3 near2 (line row column)) with ("same" simultaneous\$2 concurrent\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 11:55

S157	496	fossum.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 12:26
S158	330	S157 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 13:57
S164	39	S158 and (transistor\$1 near2 (read\$3 amplify\$3 select\$3 reset\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 12:37
S165	7	S158 and (transistor\$1 near2 amplify\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 12:31
S166	0	S158 and (transistor\$1 near2 amplifier\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 12:30
S167	0	S158 and (amplify\$3 adj2 transistor\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 12:31
S168	2	S155 and (amplify\$3 adj2 transistor\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 12:31
S169	0	S158 and (transistor\$1 near2 (read\$3 and amplify\$3 and select\$3 and reset\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 12:37
S170	1	S125 and (transistor\$1 near2 (read\$3 and amplify\$3 and select\$3 and reset\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 12:41
S173	5477	merrill.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 13:26
S179	154	(transistor\$1 near2 (read\$3 and (amplification or amplify\$3) and select\$3 and reset\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 13:57
S180	61	S179 and ((transistor\$1 near2 read\$3) with (fd floating storage capacitor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 13:57
S181	17	S180 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 14:32

S182	281163	sony.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/22 14:32
S183	79	S182 and S135	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 15:06
S187	4	("4809075" "4942474" "5081536" "5262871").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/22 15:34
S188	497	fossum.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 12:53
S189	330	S188 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:00
S190	5	S189 and (camera and processor and (delay\$3 or "s/h"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 12:58
S191	25234	(read\$3 or (read adj1 out)) adj select\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 12:59
S192	166	(read\$3 or (read adj1 out)) adj select\$4 adj transistor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:11
S193	16	S192 same (photoelectric photodiode sensor cmos)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:31
S194	3	S193 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:03
S195	89	S192 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:06
S196	15	S192 same pixel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:06
S197	2	S196 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:13
S198	2257	(read\$3 or (read adj1 out)) adj transistor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:12

S199	121	((read\$3 or (read adj1 out)) adj transistor) same ((read\$3 or (read adj1 out)) near2 select\$4 near2 transistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:26
S200	35	S199 same (pixel photoelectric photodiode sensor cmos)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:13
S201	13	S200 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:29
S202	13	((buffer or source or read\$3 or (read adj1 out)) adj transistor) same ((vertical or row or read\$3 or (read adj1 out)) near2 select\$4 near2 transistor) same (output near2 (read\$3 or (read adj1 out) and transistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:28
S203	4	S202 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:33
S204	1018	((m5 or fifth or five) near2 transistor) same (pixel photoelectric photodiode sensor cmos)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 13:32
S205	600	((m5 or fifth or five) near2 transistor) with (pixel photoelectric photodiode sensor cmos)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 17:03
S206	267	S205 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 17:03
S208	11	pixel same (((read\$3 or transfer\$4) near3 transistor) near5 (capacit\$4 or stor\$3) with (select\$3 near2 (signal charge)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 17:28
S209	2	S208 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 17:31
S210	13	pixel same (((read\$3 or transfer\$4) near3 transistor) near5 (capacit\$4 or stor\$3) near5 (amplify\$3 or amplification))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 17:36
S211	3	S210 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/25 17:31
S212	4	("4380755" "4821108" "5668631" "5694495").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/25 17:32
S213	0	("6631217").URPN.	USPAT	OR	OFF	2005/04/25 17:33
S214	9	("5694495").URPN.	USPAT	OR	OFF	2005/04/25 17:34

S215	19	("20010066402" "20020154231" "5241575" "5289286" "5335008" "5488415" "5576761" "5619262" "5917547" "5933190" "6011251" "6054704" "6111242" "6111245" "6118482" "6130713" "6201572" "6239839" "6355965" "6512544").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/25 17:38
S216	3	"6600160".pn.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/26 11:01
S217	497	fossum.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 11:55
S218	330	S217 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 11:56
S219	28	yadid-pecht.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 11:56
S220	8	("6115065" "4835617" "5471515" "6512544" "6600160" "6008486" "6549235" "6798451").pn.	USPAT	OR	OFF	2005/04/27 15:40
S224	330	348/294.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:04
S225	58	S224 and ((horizontal and vertical) near2 (register scan\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:06
S226	15	S225 and (cmos x-y)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:07
S227	53	("3866067" "3934161" "3988619" "4363963" "4473836" "4626915" "4654714" "4680489" "4734776" "4742238" "4809075" "4839735" "4845553" "4875091" "4901129" "4942473" "5014107" "5021853" "5055418" "5117292" "5161024" "5241575" "5276521" "5289023" "5317174" "5335015" "5341008" "5396289" "5414464" "5414683" "5424223" "5428390" "5471245" "5541402" "5541654" "5547881" "5572074" "5576763" "5589423" "5625210" "5631704" "5705441" "5712682" "5729287" "5739562" "5742058" "5892541" "5903021" "6040570" "6043525" "6175383" "6246436" "6369853").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/27 16:31
S228	330	348/294.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:43
S229	175	348/297.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:43
S230	418	348/301-304.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:43
S231	473	348/307-310.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:43

S232	1073	S228 S229 S230 S231	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/27 16:43
S233	303	S232 and (transistor with ((vertical and horizontal) (row and column)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 17:07
S234	277	S232 and (transistor with ((select\$4 switch\$3) and ((vertical and horizontal) (row and column))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:47
S235	186	S232 and ((pixel photodiode photoelectric) same (transistor with ((select\$4 switch\$3) and ((vertical and horizontal) (row and column))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:50
S236	96	S235 and (cmos x-y)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 16:50
S237	346	S232 and ((control or select or choose or mode) near2 (read\$3 transfer\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 18:45
S238	480	S232 and ((control\$4 or select\$4 or choos\$3 or mode) near2 (read\$3 transfer\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 18:48
S239	302	S232 and ((pixel photodiode photoelectric\$1) same ((control\$4 or select\$4 or choos\$3 or mode) near2 (read\$3 transfer\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 17:12
S240	84	S232 and ((pixel photodiode photoelectric\$1) same (transistor with ((control\$4 or select\$4 or choos\$3 or mode) near2 (read\$3 transfer\$3))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 17:14
S241	12	S232 and (((transfer read\$3 follower) near2 (capacitor stor\$3 fd floating diffusion)) same (transistor with ((control\$4 or select\$4 or choos\$3 or mode) near2 (read\$3 transfer\$3))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 17:16
S242	8	("20010012070" "4556910" "4942474" "5471515" "5793423" "5926214" "5955753" "6239839").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/27 17:26
S243	0	("6801253").URPN.	USPAT	OR	OFF	2005/04/27 17:28
S244	9	("5187583" "5270531" "5933188" "6037577" "6091449" "6281533" "6300978" "6512543" "6528342").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/27 18:32
S245	7	("5187583").URPN.	USPAT	OR	OFF	2005/04/27 18:37
S246	632	S232 and ((control\$4 or select\$4 or choos\$3) near2 (read\$3 transfer\$3 row line))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 18:49
S247	26	S232 and (((control\$4 or select\$4 or choos\$3) near2 (read\$3 transfer\$3 row line)) same ((amplify\$3 amplificat\$3) near2 transistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 18:56

S248	7	S232 and (((control\$4 or select\$4 or choos\$3) near2 (read\$3 transfer\$3 row line)) same ((amplify\$3 amplificat\$3) near2 transistor) near5 (capacitor fd diffusion stor\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:06
S249	5	S232 and (((control\$4 or select\$4 or choos\$3) near2 (read\$3 transfer\$3 row line)) with((amplify\$3 amplificat\$3) near2 transistor) near5 (capacitor fd diffusion stor\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:36
S250	6	S232 and (((control\$4 or select\$4 or choos\$3) near2 (row line)) adj5 ((amplify\$3 amplificat\$3) near2 transistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:34
S251	112	S232 and ((capacitor fd diffusion stor\$3) adj5 ((control\$4 or select\$4 or choos\$3) near2 (read\$3 transfer\$3 row line)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:13
S252	24	S232 and ((capacitor fd diffusion stor\$3) adj5 ((amplify\$3 amplificat\$3) near2 transistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:42
S253	13	S232 and (((transfer\$4 read\$3 shutter accumul\$4) near2 transistor) adj5 ((control\$4 or select\$4 or choos\$3) near2 (read\$3 transfer\$4 row line)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:43
S254	1	S252 and S253	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:43
S255	119	(pixel photodiode photoelectric) same ((capacitor fd diffusion stor\$3) adj5 ((amplify\$3 amplificat\$3) near2 transistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:49
S256	195	(pixel photodiode photoelectric) same (((transfer\$4 read\$3 shutter accumul\$4) near2 transistor) adj5 ((control\$4 or select\$4 or choos\$3) near2 (read\$3 transfer\$4 row line)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:50
S257	11	S255 and S256	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:50
S258	1	S257 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:51
S259	94	(pixel photodiode photoelectric) with ((capacitor fd diffusion stor\$3) adj5 ((amplify\$3 amplificat\$3) near2 transistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:49
S260	283	(pixel photodiode photoelectric) same ((capacitor fd diffusion stor\$3) with ((amplify\$3 amplificat\$3) near2 transistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:49

S261	527	(pixel photodiode photoelectric) same (((transfer\$4 read\$3 shutter accumulat\$4) near2 transistor) with ((control\$4 or select\$4 or choos\$3) near2 (read\$3 transfer\$4 row line)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:50
S262	73	S260 and S261	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:50
S263	19	S262 and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 19:51
S264	3	"6037577".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 21:19
S265	2	"6798451".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 21:21
S266	2	"6801253".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/27 21:21
S267	11	("6801256" "6674470" "6037577" "4942474").pn.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/28 09:38
S268	4	("6801256" "6674470" "6037577" "4942474").pn.	USPAT	OR	OFF	2005/04/28 09:38
S269	330	348/294.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/28 10:46
S270	175	348/297.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/28 10:46
S271	418	348/301-304.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/28 10:46
S272	473	348/307-310.ccls. and @ad<"19991122"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/28 10:46
S273	1073	S269 S270 S271 S272	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/28 10:46
S274	1	S273 and so.in.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/28 10:46
S275	12	("4839735" "5401952" "5471515" "5539460" "5598210" "5898168" "5900623" "5929908" "5962844" "6141050" "6271880" "6369853").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/28 10:56

S276	47	S273 and (((horizontal and vertical) near2 select\$3) with (column line y))	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/28 10:58
S277	58	S273 and (((horizontal and vertical) near2 select\$3) with (column line y))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/28 10:58
S278	20	("4041519" "4242706" "4547806" "4609824" "4621291" "4628364" "4679068" "5001359" "5345266" "5543838" "5818070" "5831258" "5898168" "5973311" "5978025" "6037577" "6320617" "6320618" "6528852" "6680223").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/28 10:59
S279	1	"5471515".pn. and (reset\$4 same (stor\$3 or capacitor\$1))	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/29 10:51
S280	1	"5471515".pn. and (reset\$4 same (source adj1 follower))	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/29 10:52